# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 02/04/2022 09:00 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 01/20/2022 09:34 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 32272 | Expiration Date: | 09/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124329 | -1 | 4.10 | 124287 | 4.09 |
| Blue | F | SSC | 125000 | 123213 | -2 | 4.31 | 123803 | 4.26 |
| Blue | E | FITC | 13602 | 13198 | -3 | 4.19 | 369 | 13.74 |
| Blue | D | PE | 24891 | 24335 | -3 | 3.90 | 577 | 11.01 |
| Blue | B | PerCP-Cy5-5 | 33972 | 33178 | -3 | 4.67 | 948 | 15.18 |
| Blue | A | PE-Cy7 | 22865 | 23016 | 0 | 6.79 | 478 | 30.98 |
| Red | C | APC | 47198 | 46571 | -2 | 3.84 | 1610 | 11.57 |
| Red | A | APC-Cy7 | 26454 | 25495 | -4 | 4.63 | 719 | 12.56 |
| Violet | B | V450 | 6737 | 6280 | -7 | 5.92 | 443 | 12.43 |
| Violet | A | V500 | 29317 | 27736 | -6 | 5.77 | 948 | 9.58 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 23784 | 5.11 | 539 | 4 | N/A | N/A | Pass |
| Blue | F | SSC | 54821 | 3.73 | 519 | -2 | N/A | N/A | Pass |
| Blue | E | FITC | 55 | 53.22 | 488 | 4 | 0.0443 | 78 | Pass |
| Blue | D | PE | 111 | 39.92 | 491 | 5 | 0.4346 | 351 | Pass |
| Blue | B | PerCP-Cy5-5 | 148 | 42.77 | 584 | 5 | 0.0207 | 123 | Pass |
| Blue | A | PE-Cy7 | 78 | 80.87 | 630 | 9 | 0.0222 | 2 | Pass |
| Red | C | APC | 337 | 26.23 | 574 | 2 | 0.0304 | 278 | Pass |
| Red | A | APC-Cy7 | 132 | 35.36 | 551 | 0 | 0.0068 | 1595 | Pass |
| Violet | B | V450 | 75 | 47.59 | 457 | 7 | 0.0543 | 2223 | Pass |
| Violet | A | V500 | 110 | 28.66 | 477 | 8 | 0.0244 | 304 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Input Device: | Carousel | Date: | 02/04/2022 09:00 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.64 - 71.46 | N/A | N/A | -31.63 | -31.37 | 0.93 |
| Blue | 20.35 | 16.28 - 24.42 | 1.29 | 1.03 - 1.55 | 0.00 | 0.00 | 1.43 |
| Red | 15.47 | 13.90 - 20.86 | N/A | N/A | 29.85 | 30.06 | 1.22 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.93

## Threshold

Threshold (FSC): 11867

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments